

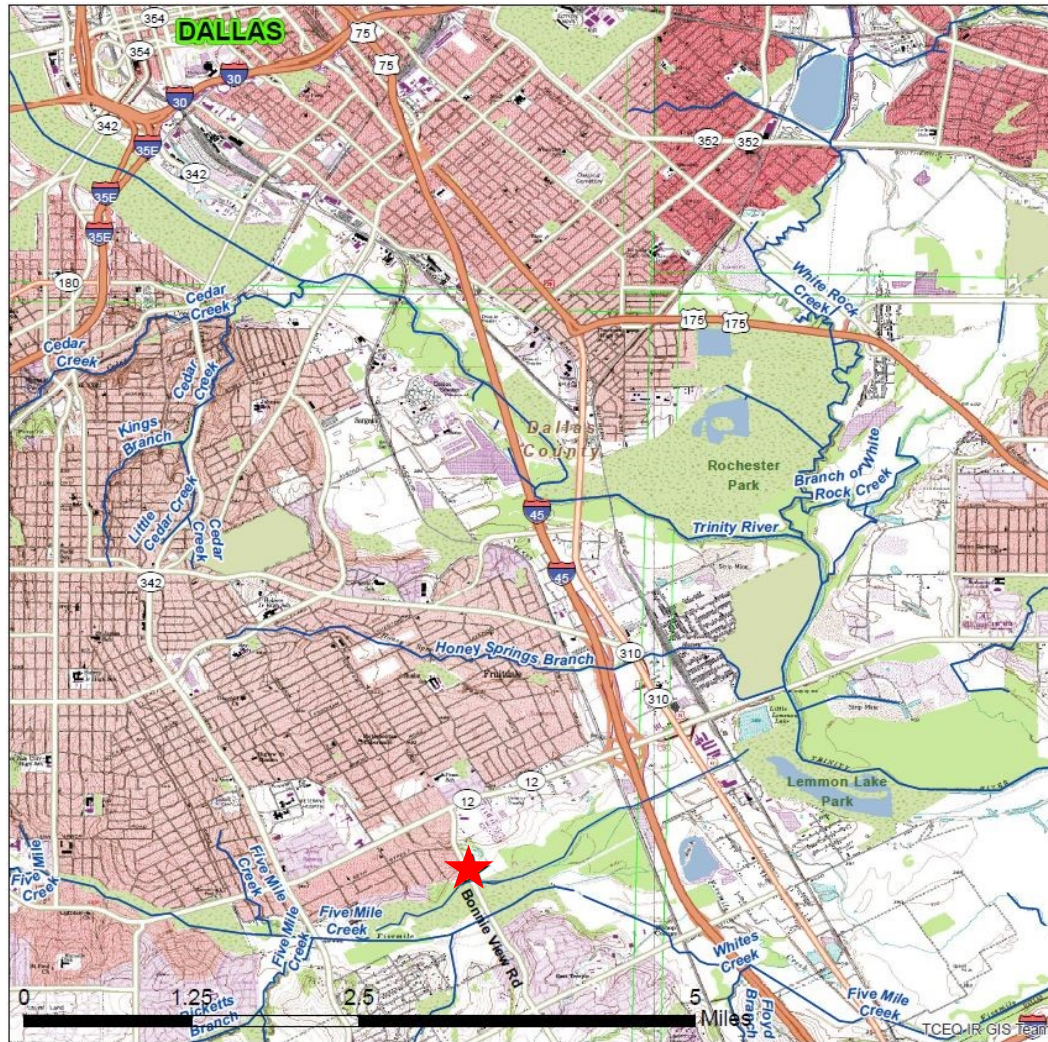
Lane Plating Works



**City of Dallas Meeting
March 21, 2017**

U.S. EPA Region 6

Site Location

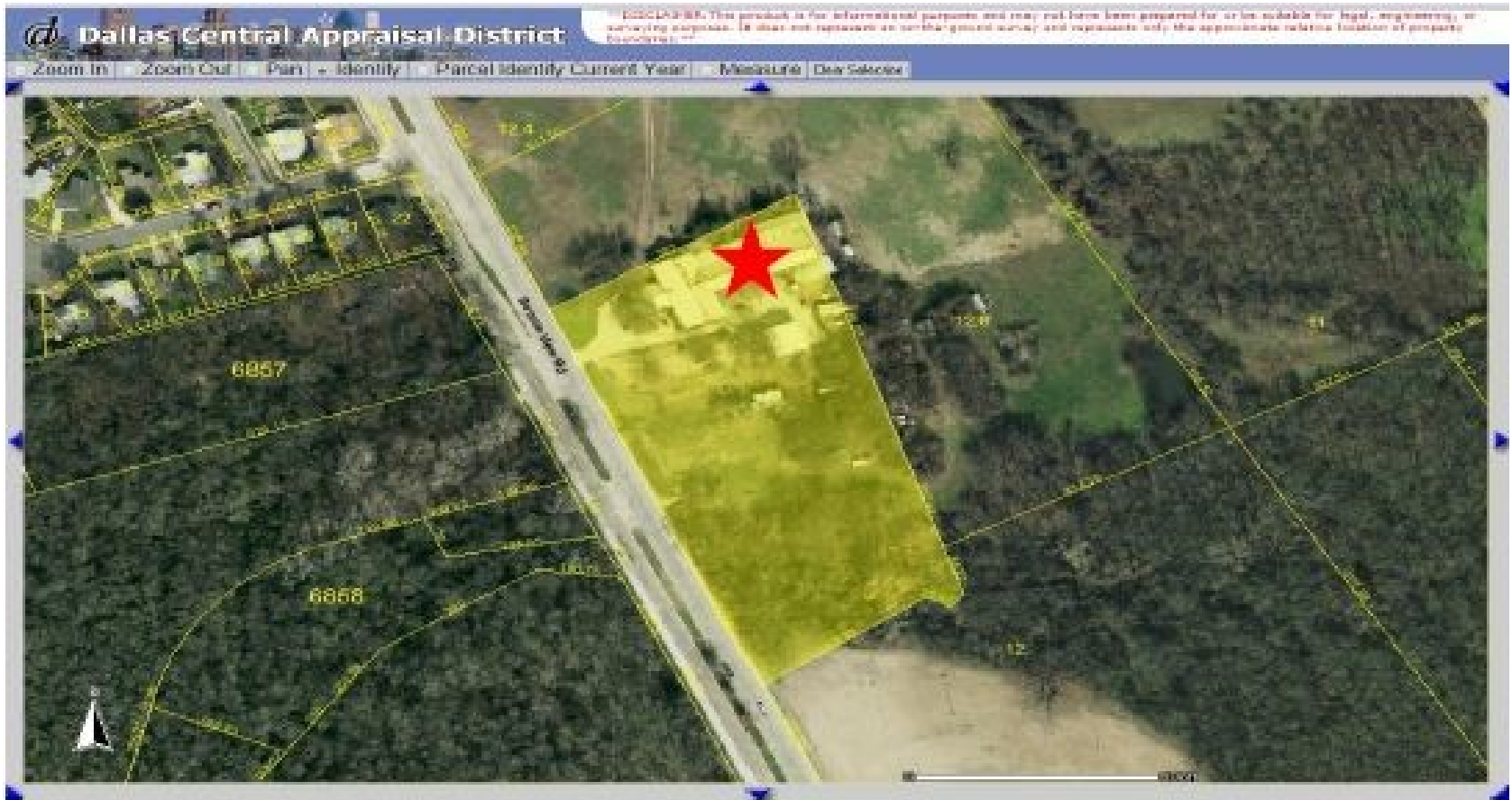


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Property Boundaries

Property Owner: Stag Management, Inc.

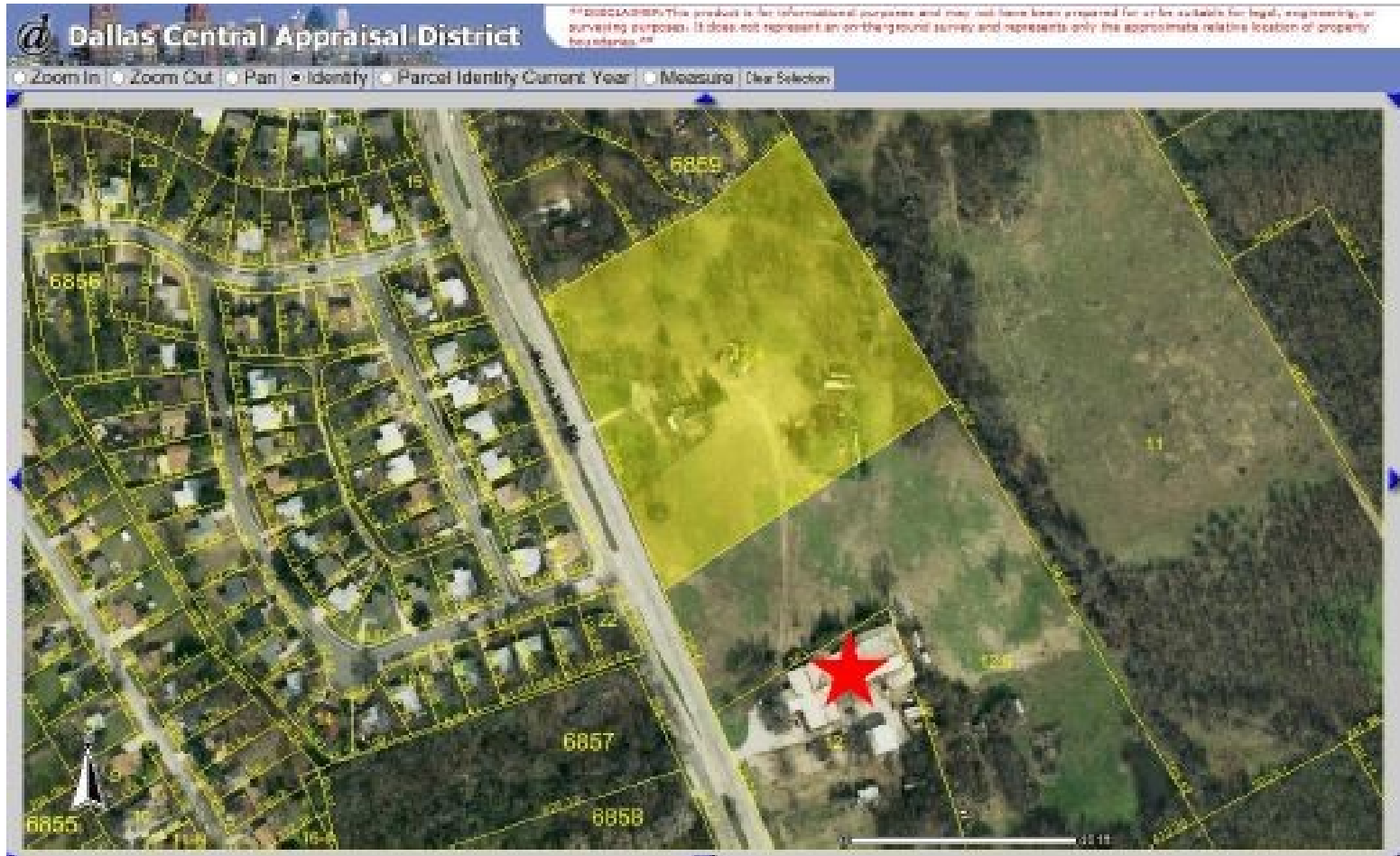


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Property Boundaries (cont.)

Property Owner: Jeff & Leticia Lane

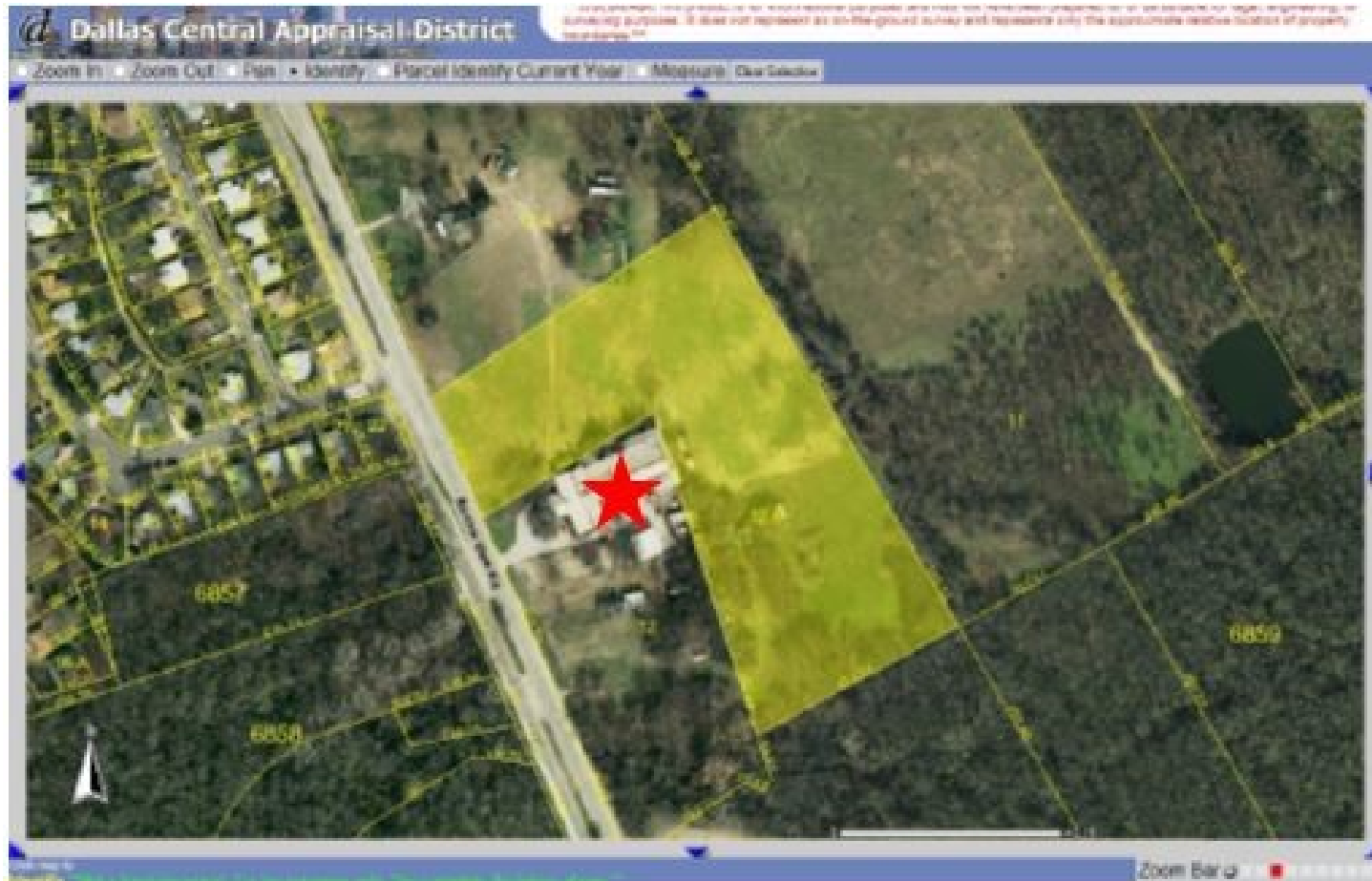


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Property Boundaries (cont.)

Property Owner: Stag Management, Inc.

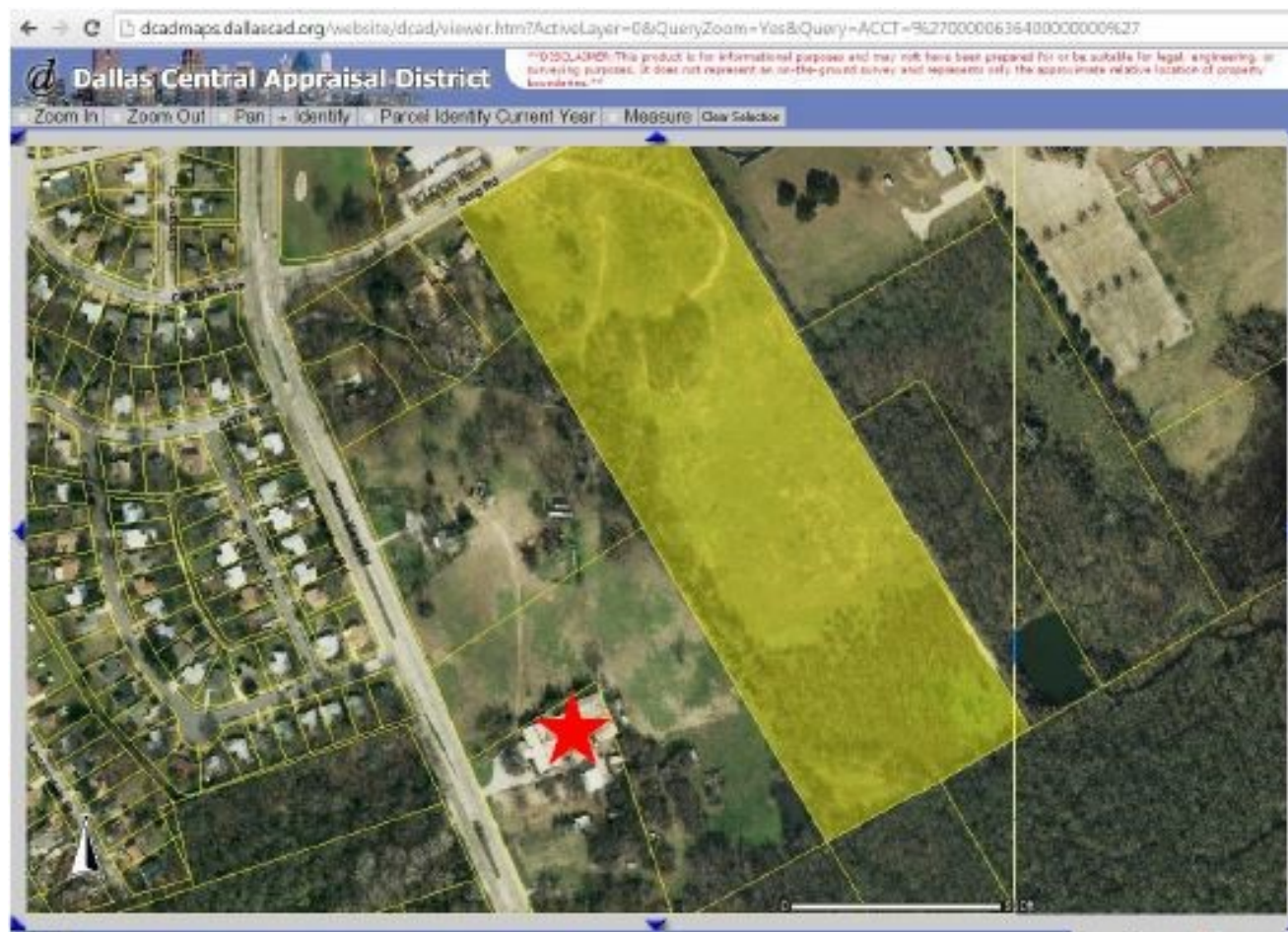


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Property Boundaries (cont.)

Property Owner: J.R. & C.E. Lane



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Property Boundaries (cont.)

Property Owner: Charles & John Lane



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Recent History

- ▶ Late 2015 – Texas Commission on Environmental Quality (TCEQ) noted the Lane Plating facility had ceased operations and closed
- ▶ Dec. 2015 – TCEQ conducted a limited removal action
 - Lab-pack select chemicals in the facility lab
 - Pump waste/sludge from two on-site sumps (~8,000 gals)
 - Secure the facility

TCEQ Referral

- ▶ TCEQ referred the site to EPA's Emergency Management Branch in January 2016
- ▶ TCEQ requested EPA evaluate the site under the HRS in early-February 2016

Removal Assessment

- ▶ Site reconnaissance completed on March 23, 2016

- ▶ Field activities conducted April 12-13, 2016
 - Liquid waste sampling
 - Soil sampling

- ▶ Sample results
 - Liquid wastes are characteristically hazardous
 - Soils are contaminated predominantly with hex chrome, lead, and mercury above EPA RSLs

Totes Containing Chromic Acid Wastes from Sumps



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Tank Containing Chromic Acid Wastes



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Removal Action

- ▶ Removal action conducted from October 3 through November 18, 2016

- ▶ Wastes disposed included:
 - Plating solutions (cyanide, chromium, sulfuric acid, caustic solutions)
 - Paints
 - Elemental mercury
 - Flammable liquids and aerosols
 - Waste oil/oil filters
 - Acidic and caustic solids
 - Soils

Removal Action (cont.)

- ▶ Quantity of wastes disposed – **187,868 lbs**
 - 111 55-gallon drums
 - 82 275-gallon totes
 - 2 330-gallon totes
 - 10 30-gallon drums
 - 1 95-gallon overpack drum
 - 3 5-gallon pails
 - 54 cubic yards of solids (soil, brick, RCRA empty containers)

Removal Action (cont.)

- ▶ Soil sampling conducted:
 - April 12 – 13, 2016 (initial Removal Assessment)
 - Sept. 19 – 23, 2016 (in conjunction with the Removal Action)

- ▶ Most common metals detected associated with Lane Plating operations:
 - Hexavalent chromium
 - Lead
 - Mercury

Removal Action (cont.)

- ▶ EPA Regional Screening Levels (RSLs)
 - Hex Chromium – 6.3 mg/Kg Industrial; 0.3 mg/Kg Residential
 - Lead – 800 mg/Kg Industrial; 400 mg/Kg Residential
 - Mercury – 46 mg/Kg Industrial; 11mg/Kg Residential

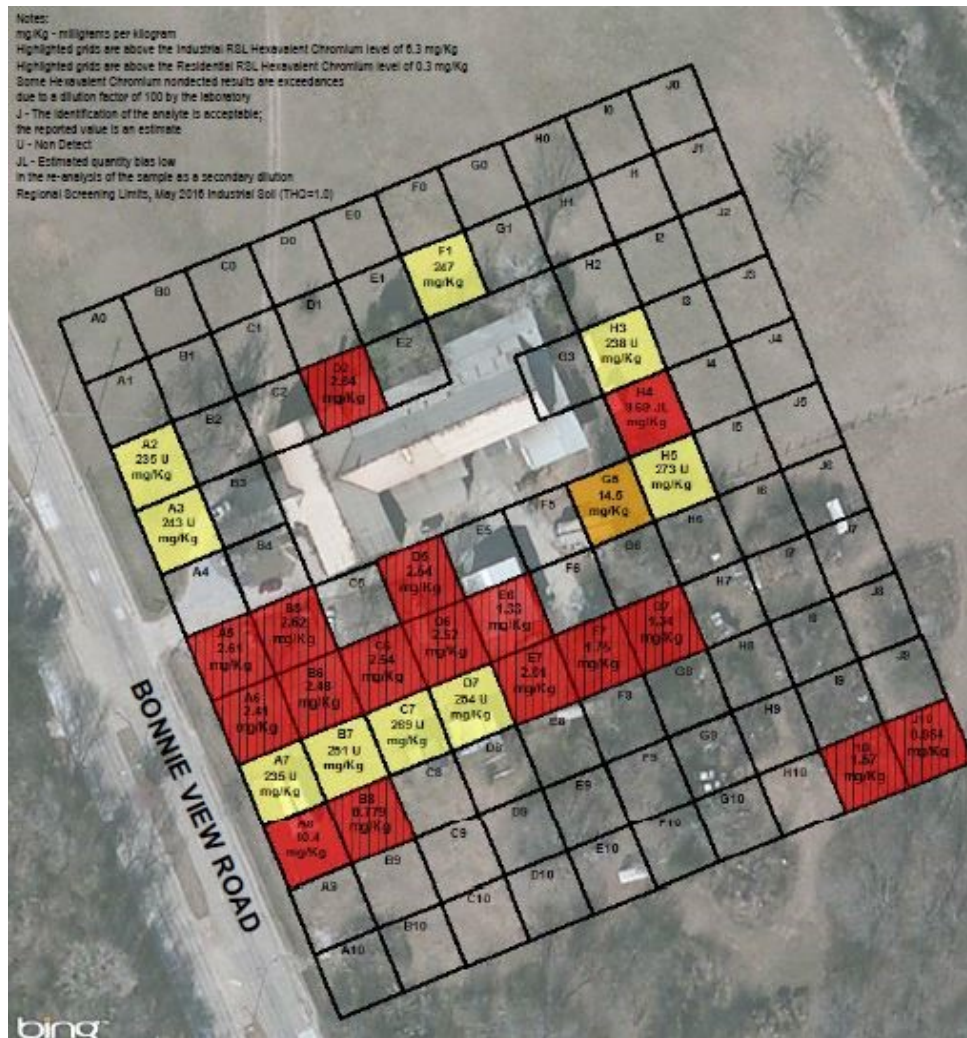
Soil Sampling Grid



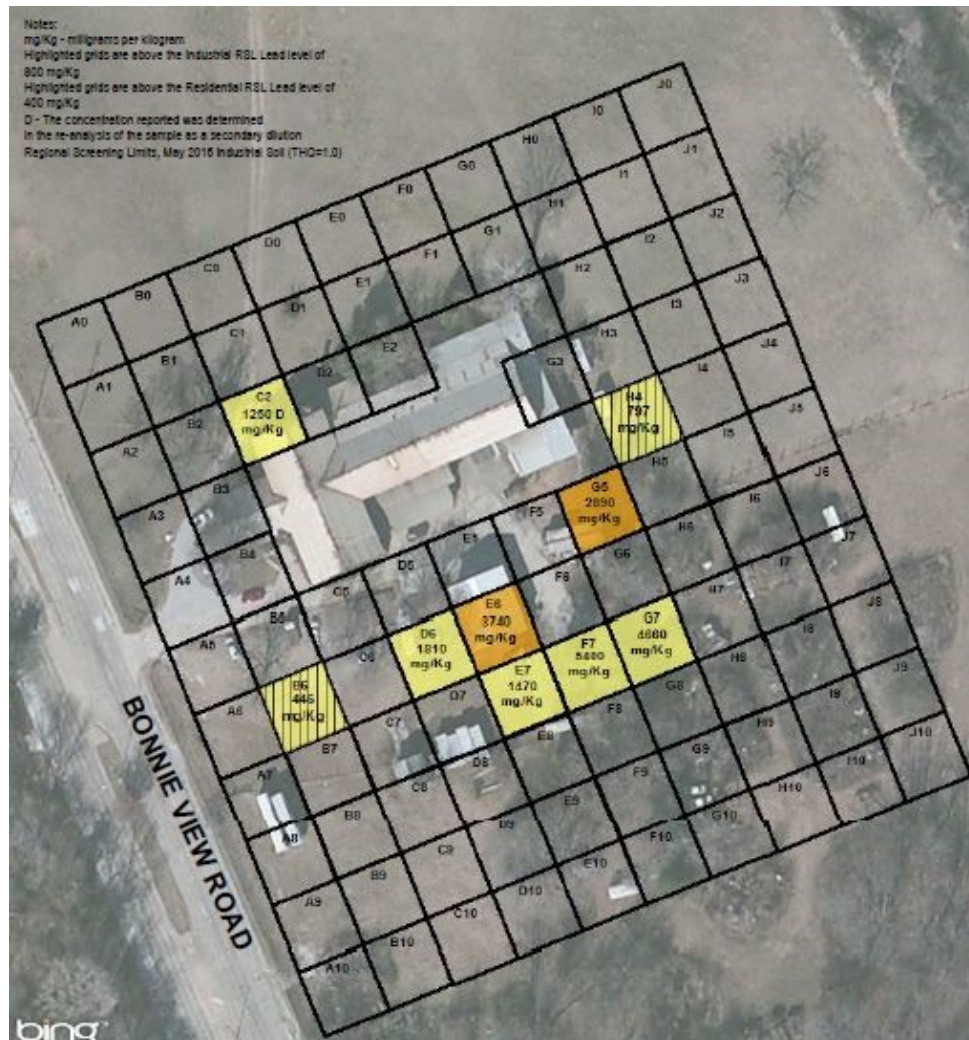
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Soil Sampling – Hex Chrome



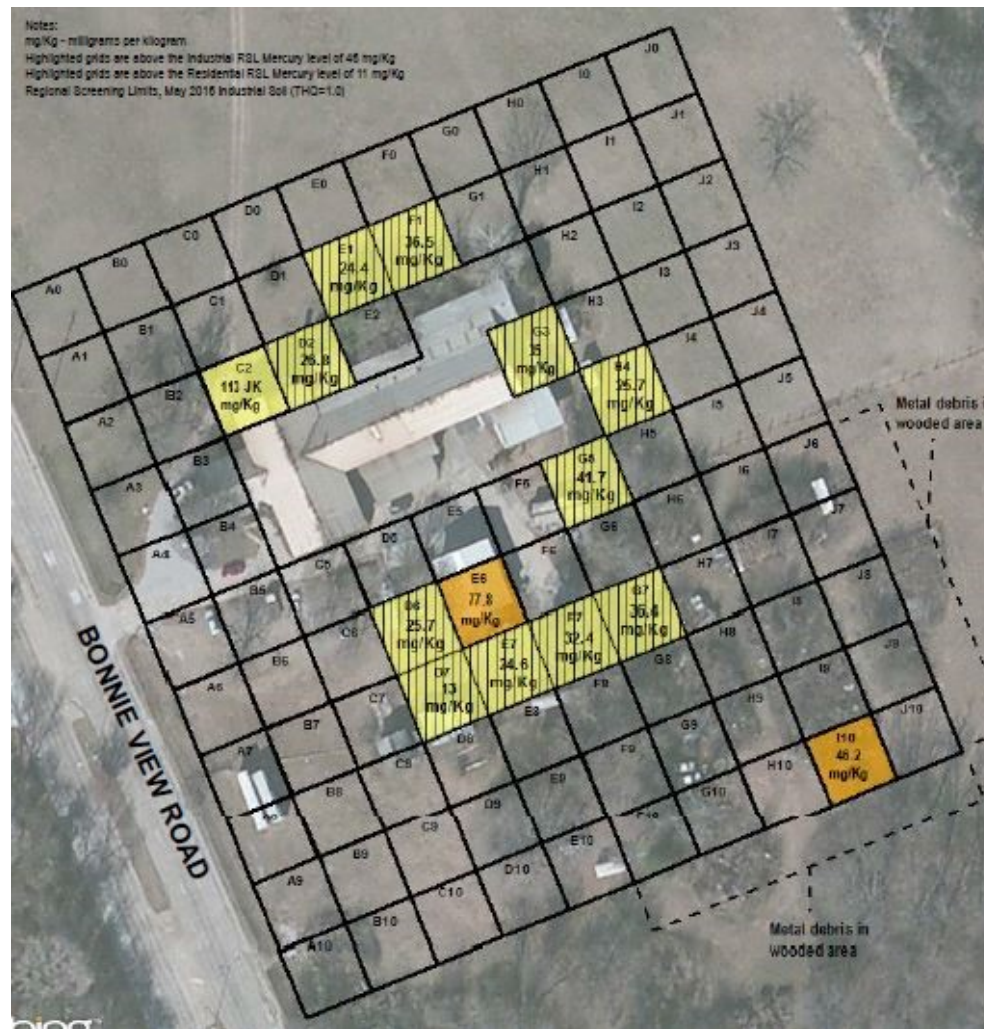
Soil Sampling – Lead



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Soil Sampling – Mercury



Preliminary Assessment

- ▶ Site Visit/Field Reconnaissance conducted on February 24, 2016
 - Potential Sources
 - Contaminated soil
 - Containerized wastes
 - Ground Water Pathway
 - Two on-site wells (impacted)
 - Only one well located within 1-mile – irrigation
 - Soil Exposure Pathway
 - No on-site workers
 - No receptors located within 200-feet

Preliminary Assessment (cont.)

- ▶ Site Visit/Field Reconnaissance conducted on February 24, 2016 (cont.)
 - Surface Water Pathway
 - No drinking water intakes within the 15-mile TDL
 - Sensitive environments located within the 15-mile TDL (Joppa/Lemon Lake Preserve and freshwater wetlands)
 - Air Pathway
 - 74 Residences within 1/4-mile

Site Inspection

- ▶ Site Visit/Field Reconnaissance conducted on June 1, 2016

- ▶ Field Activities completed from July 18-21
 - Soil
 - Surface Water
 - Sediment

Site Inspection (cont.)

- ▶ Site Inspection evaluated the Surface Water Pathway

- ▶ Receptors include:
 - Wetlands
 - County preserves containing wetlands (Joppa Preserve/Lemon Lake Park)
 - Endangered/threatened species

- ▶ Chromium, lead, and mercury detected in sediments collected from Surface Water Pathway

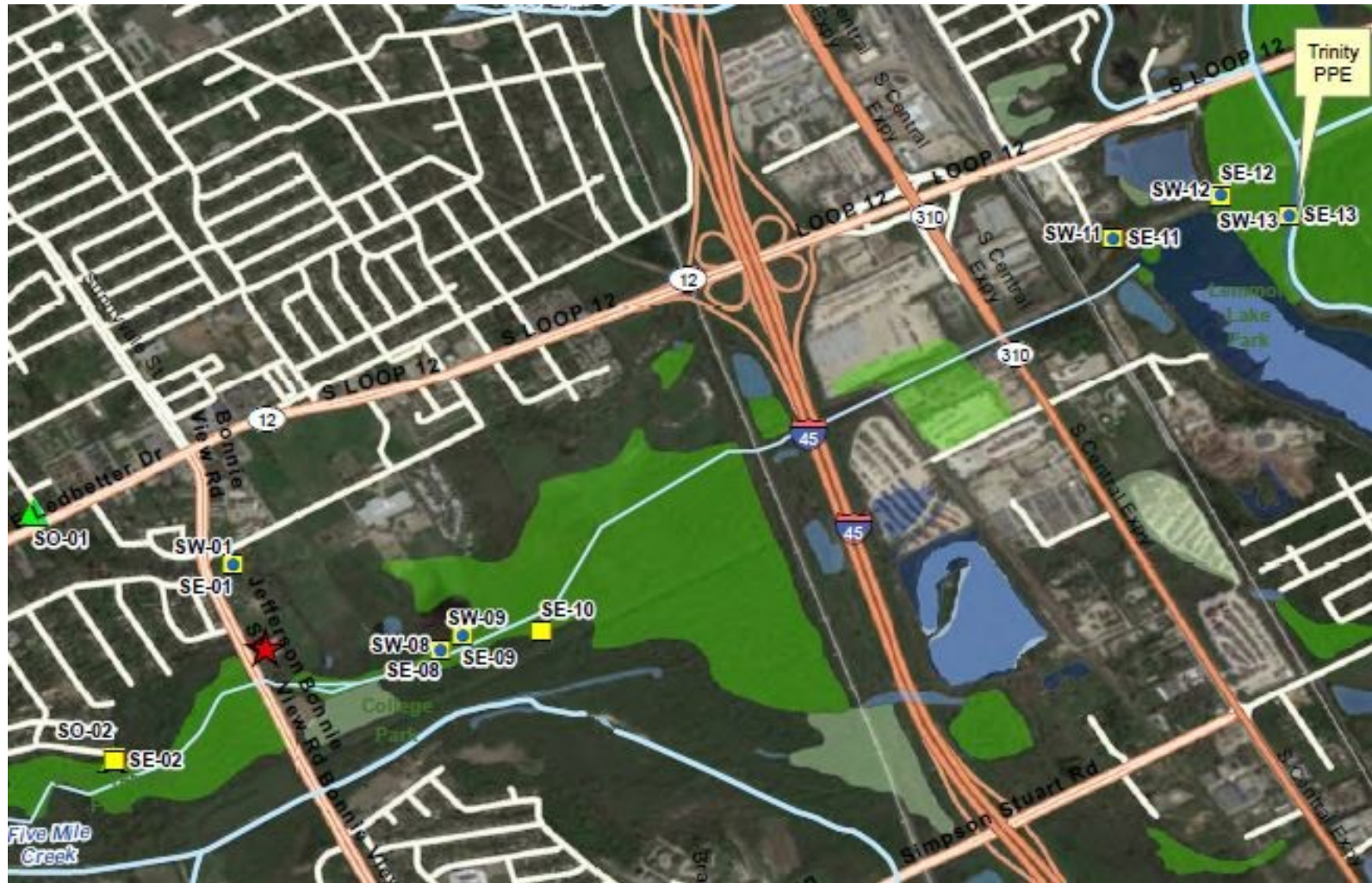
SI Sampling Map



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SI Sampling Map



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Current Status

- ▶ A Hazard Ranking System (HRS) Package is currently being prepared by TCEQ to evaluate the site's eligibility for listing on the National Priorities List

Questions